



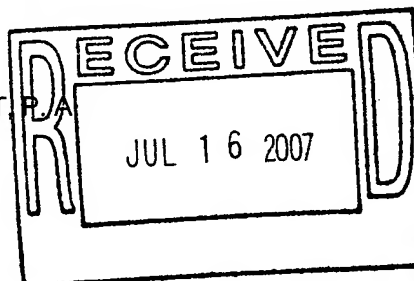
## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
 United States Patent and Trademark Office  
 Address: COMMISSIONER FOR PATENTS  
 P.O. Box 1450  
 Alexandria, Virginia 22313-1450  
 www.uspto.gov

U.S. APPLICATION NUMBER NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
10/583,570	Joseph M DeSimone	421/90 PCT/US

25297

JENKINS, WILSON, TAYLOR & HUNT, P.A.  
 SUITE 1200, UNIVERSITY TOWER  
 3100 TOWER BOULEVARD  
 DURHAM, NC 27707



INTERNATIONAL APPLICATION NO.

PCT/US04/42706

I.A. FILING DATE

12/20/2004

PRIORITY DATE

12/19/2003

CONFIRMATION NO. 8879

371 FORMALITIES LETTER



\*OC000000024770780\*

Date Mailed: 07/12/2007

## NOTIFICATION OF DEFECTIVE RESPONSE

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495):

- Priority Document
- Copy of the International Application filed on 06/19/2006
- Preliminary Amendments filed on 06/19/2006
- Oath or Declaration filed on 03/05/2007
- Biochemical Sequence Listing filed on 06/19/2006
- U.S. Basic National Fees filed on 06/19/2006
- Priority Documents filed on 06/19/2006
- Specification filed on 06/19/2006
- Claims filed on 06/19/2006
- Drawings filed on 06/19/2006
- Paper nucleotide sequence listings filed on 06/19/2006

DOCKET DATES: 8/14/07  
 ASSIGNED ATTY: AAT/ALD  
 FILE NO. 421/90 PCT/US  
 DOCKETED BY: CTB DATE: 7/19/07

Applicant's response filed 03/05/2007 is hereby acknowledged. The following requirements set forth in the NOTIFICATION of MISSING REQUIREMENTS mailed 02/14/2007 have not been completed.

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date. The current oath or declaration does not comply with 37 CFR 1.497(a) and (b) in that it:
  - The 8th inventor's name is different on the declaration than on the international application. Please clarify.
- A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 CFR 1.821(e). If the effective filing date is on or after September 8, 2000, see the final rulemaking notice published in the Federal Register at 65 FR 54604 (September 8, 2000) and 1238 OG 145 (September 19, 2000). Applicant must provide an initial computer readable form (CRF) copy of the "Sequence Listing" and a statement that the content of the sequence listing information recorded in computer readable form is

identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d). If applicant desires the sequence listing in the instant application to be identical with that of another application on file in the U.S. Patent and Trademark Office, such request in accordance with 37 CFR 1.821(e) may be submitted in lieu of a new CRF.

**Applicant is required to complete the response within a time limit of ONE MONTH from the date of this Notification or within the time remaining in the response set forth in the Notification of Missing Requirements, whichever is the longer. No extension of this time limit may be granted under 37 CFR 1.136, but the period for response set in the Notification of Missing Requirements may be extended under 37 CFR 1.136(a).**

Additionally the following defects have been observed:

- The International Search Report has not be supplied, the Search Fee has been adjusted to reflect this omission.

Applicant is cautioned that correction of the above items may cause the specification and drawings page count to exceed 100 pages. If the specification and drawings exceed 100 pages, applicant will need to submit the required application size fee.

**For questions regarding compliance to 37 CFR 1.821-1.825 requirements, please contact:**

- For Rules Interpretation, call (571) 272-0951
- For Patentin Software Program Help, call Patent EBC at 1-866-217-9197 or directly at 703-305-3028 / 703-308-6845 between the hours of 6 a.m. and 12 midnight, Monday through Friday, EST.
- Send e-mail correspondence for Patentin Software Program Help @ [ebc@uspto.gov](mailto:ebc@uspto.gov)

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web.  
<https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html>

For more information about EFS-Web please call the USPTO Electronic Business Center at 1-866-217-9197 or visit our website at <http://www.uspto.gov/ebc>.

**If you are not using EFS-Web to submit your reply, you must include a copy of this notice.**

JOHN L ANDERSON

Telephone: (703) 308-9140 EXT 211

**PART 1 - ATTORNEY/APPLICANT COPY**

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/583,570	PCT/US04/42706	421/90 PCT/US



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I.A. FILING DATE

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12/20/2004

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 3100 TOWER BLVD  
 SUITE 1200  
 DURHAM, NC 27707

Initial: 4/14/07  
 Absolute: 9/14/07  
 PAT/ALD  
 421/90 PCT/US  
 CAB  
 2/19/07

CONFIRMATION NO. 8879

371 FORMALITIES LETTER



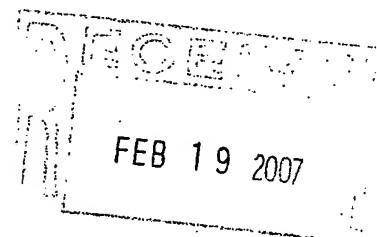
\*OC000000022474305\*

Date Mailed: 02/14/2007

### NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

- Copy of the International Application filed on 06/19/2006
- Preliminary Amendments filed on 06/19/2006
- Oath or Declaration filed on 06/19/2006
- Biochemical Sequence Listing filed on 06/19/2006
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- Specification filed on 06/19/2006
- Claims filed on 06/19/2006
- Drawings filed on 06/19/2006
- Paper nucleotide sequence listings filed on 06/19/2006



The applicant needs to satisfy supplemental fees problems indicated below.

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date. The current oath or declaration does not comply with 37 CFR 1.497(a) and (b) in that it:
  - The declaration is not executed in accordance with either 37 CFR 1.66 or 37 CFR 1.68. Also, the 8th inventor's name is different on the declaration than on the international application. Please clarify.
- To avoid abandonment, a surcharge (for late submission of filing fee, search fee, examination fee or oath or declaration) as set forth in 37 CFR 1.492(h) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.

**SUMMARY OF FEES DUE:**

Total additional fees required for this application is **\$130** for a Large Entity:

- **\$130 Surcharge.**
- A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 CFR 1.821(e). If the effective filing date is on or after September 8, 2000, see the final rulemaking notice published in the Federal Register at 65 FR 54604 (September 8, 2000) and 1238 OG 145 (September 19, 2000). Applicant must provide an initial computer readable form (CRF) copy of the "Sequence Listing" and a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d). If applicant desires the sequence listing in the instant application to be identical with that of another application on file in the U.S. Patent and Trademark Office, such request in accordance with 37 CFR 1.821(e) may be submitted in lieu of a new CRF.

Additionally the following defects have been observed:

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**For questions regarding compliance to 37 CFR 1.821-1.825 requirements, please contact:**

- **For Rules Interpretation, call (571) 272-0951**
- **For Patentin Software Program Help, call Patent EBC at 1-866-217-9197 or directly at 703-305-3028 / 703-308-6845 between the hours of 6 a.m. and 12 midnight, Monday through Friday, EST.**
- **Send e-mail correspondence for Patentin Software Program Help @ [ebc@uspto.gov](mailto:ebc@uspto.gov)**

**ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.**

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web.  
<https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html>

For more information about EFS-Web please call the USPTO Electronic Business Center at 1-866-217-9197 or visit our website at <http://www.uspto.gov/ebc>.

**If you are not using EFS-Web to submit your reply, you must include a copy of this notice.**

JOHN L ANDERSON

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Telephone: (703) 308-9140 EXT 211

## PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/583,570	PCT/US04/42706	421/90 PCT/US

FORM PCT/DO/EO/905 (371 Formalities Notice)

The U.S. Patent and Trademark  
Office date stamp sets forth the  
date of receipt of:

Attorney: AAT/shb  
Docket No.: 421/90 PCT/US  
Inventor(s): DeSimone et al.  
Serial No.: 10/583,570

Title: METHODS FOR FABRICATING ISOLATED MICRO- AND NANO-  
STRUCTURES USING SOFT OR IMPRINT LITHOGRAPHY

The following items mailed to the U.S. Patent and Trademark Office on the date indicated  
below:

1. Completion of Filing Requirements for International Application Entering U.S. National  
Stage In U.S. Elected Office (EO/US) Under 35 U.S.C. § 371
2. Executed Declaration (4 pgs.)
3. Copy of Notification of Missing Requirements Under 35 U.S.C. 371 in the United States  
Designated/Elected Office (DO/EO/US)
4. Check in the amount of \$130.00
5. Return-Receipt Postcard

**MAR - 9 2007**

☒ Express Mail Label No.: EV944038653US

☒ Large Entity  
☐ Small Entity

Date Transmitted: March 5, 2007

**IAP15 Rec'd PCT/PTO 05 MAR 2007**

Practitioner's Docket No. 421/90 PCT/US  
Serial No. 10/583,570

**CHAPTER II**

**IN THE UNITED STATES ELECTED OFFICE (EO/US)**

PCT/US04/42706

20 December 2004  
(20.12.04)

19 December 2003 (19.12.03)

International Application No.

International Filing Date

Priority Date Claimed

METHODS FOR FABRICATING ISOLATED MICRO- AND NANO- STRUCTURES USING  
SOFT OR IMPRINT LITHOGRAPHY

Title of Invention.

The University of North Carolina at Chapel Hill et al.

Applicant(s)

Mail Stop PCT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450  
ATTENTION: EO/US

**COMPLETION OF FILING REQUIREMENTS  
FOR INTERNATIONAL APPLICATION ENTERING U.S. NATIONAL STAGE  
IN U.S. ELECTED OFFICE (EO/US) UNDER 35 U.S.C. § 371**

This replies to the Notice of Missing Requirements under 35 U.S.C. § 371 and 37 C.F.R. § 1.495  
(FORM PCT/DO/EO/905).

A copy of FORM PCT/DO/EO/905 accompanies this response.

**EXPRESS MAILING UNDER 37 C.F.R. § 1.10\***

*(Express Mail label number is mandatory.)*

*(Express Mail certification is optional)*

I hereby certify that this paper, along with any document referred to, is being deposited with the United States Postal Service on this date  
March 5, 2007 in an envelope addressed to the Commissioner for Patents, P.O. Box 1450,  
Alexandria, VA 22313-1450 as "Express Mail Post Office to Addressee" Mailing Label No.  
EV944038653US.

*Stacie H. Boswell*

Stacie H. Boswell

Date: March 5, 2007

*Signature of person certifying*

*WARNING: Certificate of mailing (first class) or facsimile transmission procedures of 37 C.F.R. 1.8 cannot be used to obtain a date of mailing or transmission for this correspondence.*

*\*WARNING: Each paper or fee filed by "Express Mail" must have the number of the "Express Mail" mailing label placed thereon prior to mailing. 37 C.F.R. 1.10(b).*

*"Since the filing of correspondence under § 1.10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will not be granted on petition." Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 56,442.*

JENKINS, WILSON, TAYLOR & HUNT  
PATENT ATTORNEYS

27060

2.00 DIRECTOR of the USPTO  
03/05/07 MISSING REQUIREMENTS FEES -  
OUR FILE NO. 421/90US

130.00

130.00

03/05/07

27060

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JENKINS, WILSON, TAYLOR & HUNT, P.A.

SUITE 1200 UNIVERSITY TOWER  
3100 TOWER BOULEVARD  
DURHAM, NC 27707  
(919) 493-8000

RBC CENTURA BANK  
DURHAM, NC 27707  
66-85-531

03/05/07

DATE

\*\*\*\*\*\$130.00  
AMOUNT

\*\*\* ONE HUNDRED THIRTY & 00/100 DOLLARS

PAY  
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ALEXANDRIA VA 22313-1450

*bc Portuquid*

MP